

**Listing of Claims:**

1. (Previously presented) A method for managing charging and billing for services on a network having one or more network elements providing billable services and one or more charging elements; the method comprising:

coupling a plurality of bridge modules to form a logical network layer between the network elements and the charging elements;

receiving charging events at the bridge modules, wherein the charging events record details of the billable services; and

managing charging transactions at the network between the network elements and their respective charging elements via the bridge modules through the application of rules to the charging transaction initiated by corresponding charging events, wherein each of the bridge modules is configured with a subset of the rules assigned to the services managed by that bridge module, and one of the bridge modules is designated as a primary bridge module to receive the rules and distribute the subsets of rules to the remaining bridge modules.

2. (Original) The method as in Claim 1, further comprising generating and transmitting the charging events by the network elements providing the billable services, wherein the charging events comprise service use parameters used by the charging elements.

3. (Canceled)

4. (Previously presented) The method as in Claim 1, further comprising:

implementing an application programming interface (API) at each of the network elements providing billable services to interface each of the respective network elements to the one or more bridge modules; and

generating and transmitting the charging events by the network elements providing the billable services, wherein transmitting the charging events comprises transmitting XML-formatted charging events pursuant to the API.

5. (Original) The method as in Claim 1, wherein receiving charging events comprises intercepting the charging events dispatched by the network elements to the charging elements.
6. (Original) The method as in Claim 1, wherein managing charging transactions comprises applying the rules to transform the charging events to a format recognizable by targeted charging elements.
7. (Original) The method as in Claim 6, wherein applying the rules to transform the charging events comprises converting the charging events from a first format to a second format.
8. (Original) The method as in Claim 6, wherein applying the rules to transform the charging events comprises filtering the charging events to prevent transmission of particular ones of the charging events to the charging elements.
9. (Original) The method as in Claim 6, wherein applying the rules to transform the charging events comprises recalculating fields of the charging events to present the fields in units utilized in the charging elements.
10. (Original) The method as in Claim 6, wherein applying the rules to transform the charging events comprises routing the charging events to multiple destinations.
11. (Original) The method as in Claim 6, further comprising transmitting the transformed charging events via interface objects corresponding to respective charging elements.
12. (Original) The method as in Claim 11, further comprising directing the transformed charging events to the interface objects corresponding to targeted charging elements based on the rules and the transformed charging events.

13. (Original) The method as in Claim 12, wherein directing the transformed charging events further comprises applying the rules to the transformed charging events to identify addresses of the interface objects corresponding to the targeted charging elements.

14. (Original) The method as in Claim 1, wherein managing charging transactions comprises selecting an interface object for communicating with a corresponding charging element, wherein selecting an interface object comprises identifying one of a plurality of the interface objects as determined by object configuration rules.

15. (Original) The method as in Claim 1, wherein managing charging transactions comprises performing a plurality of transaction operations with a plurality of the charging elements in a sequence dictated by the rules.

16. (Original) The method as in Claim 15, wherein performing a plurality of transaction operations with a plurality of the charging elements comprises applying the rules to responsive messages from at least one of the charging elements to perform one or more of the transaction operations.

17. (Original) The method as in Claim 1, wherein managing charging transactions comprises coordinating one or more communications with the charging elements to carry out the charging transaction.

18. (Original) The method as in Claim 17, wherein coordinating the communications with the charging elements comprises transmitting a first call to a first charging element in response to applying the rules to the charging transaction initiated by the corresponding charging event.

19. (Original) The method as in Claim 18, wherein coordinating the communications with the charging elements further comprises receiving a response to the first call from the first

charging element, and transmitting a second call to a second charging element in response to applying the rules to the response to the first call.

20-23 (Cancelled)

24. (Previously presented) The method as in Claim 1, further comprising entering the rules at a console coupled to the primary bridge module.

25. (Withdrawn) A system for facilitating charging for services available via a network, comprising:

- at least one network charging element to perform service charging functions;
- at least one network service element to provide at least one service subject to use charges; and

- a network charging edge comprising at least one charging bridge logically coupled between the network service element and the network charging element to mediate communications between the network service element and the network charging element.

26. (Withdrawn) The system as in Claim 25, wherein the charging bridge comprises a transformation module to receive a charging event from the network service element and to transform the charging event to a native format of the network charging element.

27. (Withdrawn) The system as in Claim 26, wherein the charging bridge further comprises business rule modules coupled to the transformation module to govern transformations of the transformation module in accordance with predefined business rules.

28. (Withdrawn) The system as in Claim 27, wherein the charging bridge further comprises:

- an interface object module comprising a plurality of interface objects for communicating with a respective plurality of the network charging elements;
- an interface object management module coupled to the transformation module to receive transformed charging events; and

object configuration rule modules coupled to the interface object management module to instruct the interface object management module to direct the transformed charging events to the interface objects of the network charging elements for which the transformed charging events are destined.

29. (Withdrawn) The system as in Claim 25, wherein each of the network service elements comprise an application programming interface (API) to interface each respective network service element to the charging bridge.

30. (Withdrawn) The system as in Claim 25, wherein the network charging element comprises a network server that ascertains the use charges applicable to a subscriber's use of the service.

31. (Withdrawn) The system as in Claim 25, wherein the network charging element comprises a network server that generates an invoice applicable to a subscriber's use of the service.

32. (Withdrawn) The system as in Claim 25, wherein the network charging element comprises at least one of a charging and billing system, a rating engine, and a prepaid server.

33. (Withdrawn) A bridging apparatus for mediating charging transactions between at least one network service element and at least one network charging element on a network, comprising:

- a transformation module to receive a charging event from the network service element and to transform the charging event to a format comprehensible by the network charging element;

- a business rule module coupled to the transformation module to provide predefined business rules to govern transformations performed by the transformation module;

- an interface object module comprising a plurality of interface objects for communicating with a respective plurality of the network charging elements;

an interface object management module coupled to the transformation module to receive transformed charging events; and

an object configuration rule module coupled to the interface object management module to instruct the interface object management module to direct the transformed charging events to the interface objects of the charging elements for which the transformed charging events are destined.

34. (Withdrawn) The bridging apparatus as in Claim 33, wherein the transformation module is an eXtensible Markup Language (XML) transformation module to transform XML charging events.

35. (Withdrawn) A system for managing charging and billing for services on a network having one or more network elements providing billable services and one or more charging elements, the system comprising:

means for receiving charging events at a network charging edge comprising one or more bridging means logically coupled between the network elements and the charging elements; and

means for managing charging transactions between the network elements and their respective charging elements via the one or more bridging means through the application of rules to the charging transaction initiated by corresponding charging events.

36. (Withdrawn) The system of Claim 35, further comprising means for interfacing each of the respective network elements to the one or more bridging means.

37. (Withdrawn) The system of Claim 35, wherein the means for managing charging transactions comprises means for transforming the charging events to a format recognizable by targeted charging elements.

38. (Withdrawn) The system of Claim 37, further comprising means for transmitting the transformed charging events to the charging elements.

39. (Withdrawn) The system of Claim 35, further comprising means for configuring the one or more bridging means with the rules.

40. (Withdrawn) A computer-readable medium having computer-executable instructions for managing charging and billing for services on a network having one or more network elements providing billable services and one or more charging elements, the computer-executable instructions performing steps comprising:

receiving charging events at a network charging edge comprising one or more bridge modules logically coupled between the network elements and the charging elements; and

managing charging transactions between the network elements and their respective charging elements via the one or more bridge modules through the application of rules to the charging transaction initiated by corresponding charging events.

41. (Previously presented) A method for managing charging and billing for services on a network having one or more network elements providing billable services and one or more charging elements; the method comprising:

receiving a plurality of charging information records generated by a plurality of network elements at a network charging edge, wherein the plurality of charging information records are associated with a collective charging event related to a user session involving each of the plurality of network elements;

coordinating the charging information records into a user-session charging transaction at the one or more bridge modules of the network charging edge logically coupled between the plurality of network elements and the charging elements, wherein coordinating the charging information records into a user-session charging transaction is governed by first predetermined rules applied at the one or more bridge modules; and

executing the user-session charging transaction at the one or more bridge modules of the network charging edge according to second predetermined rules.

42. (Original) The method of Claim 41, wherein coordinating the charging information records into a user-session charging transaction comprises determining whether to include or exclude particular ones of the plurality of charging information records into the user-session charging transaction.

43. (Original) The method of Claim 41, wherein coordinating the charging information records into a user-session charging transaction comprises determining whether to invoke a correlation module to correlate the plurality of charging information records into one or more operations of the user-session charging transaction.

44. (Original) The method of Claim 41, wherein coordinating the charging information records into a user-session charging transaction comprises determining whether to invoke a session management module to obtain session information relating to the plurality of charging information records for use in one or more operations of the user-session charging transaction.

45. (Original) The method of Claim 41, wherein executing the user-session charging transaction comprises applying the second predetermined rules to transform the user-session charging transaction to a format recognizable by targeted charging elements.

46. (Original) The method of Claim 45, further comprising directing the transformed user-session charging transaction to interface objects corresponding to targeted charging elements based on third predetermined rules.

47. (Original) The method of Claim 41, wherein executing the user-session charging transaction comprises selecting an interface object for communicating with a corresponding charging element, wherein selecting an interface object comprises identifying one of a plurality of the interface objects as determined by third predetermined rules.



48. (Original) The method of Claim 41, wherein executing the user-session charging transaction comprises controlling the operation and sequence of one or more communications with the charging elements.

49. (Previously presented) An apparatus capable of being coupled via a network to one or more network elements providing billable services and to one or more charging elements, the apparatus comprising:

- a processor;

- a plurality of bridge modules coupled to the processor, the bridge modules each having instructions that cause the processor to,

- interface via the network with an application programming interface (API) implemented at each of the network elements providing billable services;

- receive charging events from the charging elements via a network charging edge that includes the bridge modules logically coupled between the network elements and the charging elements; and

- manage charging transactions between the network elements and their respective charging elements through the application of rules to the charging transaction initiated by corresponding charging events; and

- wherein each of the bridge modules is configured with a subset of the rules assigned to the services managed by that bridge module, and one of the bridge modules is designated as a primary bridge module to receive the rules and distribute the subsets of rules to the remaining bridge modules.

50. (Previously presented) The apparatus of Claim 49, wherein the charging events comprise service use parameters used by the charging elements.

51. (Previously presented) The apparatus of Claim 49, wherein the charging events comprise XML charging events pursuant to the API.

52. (Previously presented) The apparatus of Claim 49, wherein the bridge module causes the processor to manage charging transactions by applying the rules to transform the charging events to a format recognizable by targeted charging elements.

53. (Previously presented) The apparatus of Claim 52, wherein the bridge module causes the processor to apply the rules by transforming the charging events comprises converting the charging events from a first format to a second format.

54. (Previously presented) The apparatus of Claim 52, wherein the bridge module causes the processor to apply the rules by filtering the charging events to prevent transmission of particular ones of the charging events to the charging elements.

55. (Previously presented) The apparatus of Claim 52, wherein the bridge module causes the processor to apply the rules by recalculating fields of the charging events to present the fields in units utilized in the charging elements.

56. (Previously presented) The apparatus of Claim 52, wherein the bridge module causes the processor to apply the rules by routing the charging events to multiple destinations.

57. (Previously presented) The apparatus of Claim 52, wherein the bridge module further causes the processor transmit the transformed charging events via interface objects corresponding to respective charging elements.

58. (Previously presented) The apparatus of Claim 57, further comprising directing the transformed charging events to the interface objects corresponding to targeted charging elements based on the rules and the transformed charging events.

59. (Previously presented) The apparatus of Claim 58, wherein directing the transformed charging events further comprises applying the rules to the transformed charging events to identify addresses of the interface objects corresponding to the targeted charging elements.

60. (Canceled)

61. (Previously presented) A computer-readable medium having computer-executable instructions for managing charging and billing for services on a network having one or more network elements providing billable services and one or more charging elements, the computer-executable instructions performing steps comprising:

- interfacing via the network with an application programming interface (API) implemented at each of the network elements providing billable services;

- receiving charging events at a network charging edge comprising a plurality of bridge modules logically coupled between the network elements and the charging elements; and

- managing charging transactions between the network elements and their respective charging elements via the bridge modules through the application of rules to the charging transaction initiated by corresponding charging events, wherein each of the bridge modules is configured with a subset of the rules assigned to the services managed by that bridge module, and one of the bridge modules is designated as a primary bridge module to receive the rules and distribute the subsets of rules to the remaining bridge modules.